```
ATGGATTTCGGACTGGCCCTCCTGCTGGCGGGGCTTCTGGGGCTCCTCCTCGGCCAGTCCCTCCAGGTGAAGCCCCTGCA 80
 M  D  F  G  L  A  L  L  L  A  G  L  L  G  L  L  L  G  Q  S  L  Q  V  K  P  L  Q

GGTGGAGCCCCCGGAGCCGGTGGTGGCCGTGGCCTTGGGCGCCTCGCGCCAGCTCACCTGCCGCCTGGCCTGCGCGGACC 160
  V  E  P  P  E  P  V  V  A  V  A  L  G  A  S  R  Q  L  T  C  R  L  A  C  A  D

GCGGGGCCTCGGTGCAGTGGCGGGGCCTGGACACCAGCCTGGGCGCGGTGCAGTCGGACACGGGCCGCAGCGTCCTCACC 240
 R  G  A  S  V  Q  W  R  G  L  D  T  S  L  G  A  V  Q  S  D  T  G  R  S  V  L  T

GTGCGCAACGCCTCGCTGTCGGCGGCCGGGACCCGCGTGTGCGTGGGCTCCTGCGGGGGCCGCACCTTCCAGCACACCGT 320
 V  R  N  A  S  L  S  A  A  G  T  R  V  C  V  G  S  C  G  G  R  T  F  Q  H  T  V

GCAGCTCCTTGTGTACGCCTTCCCGGACCAGCTGACCGTCTCCCCAGCAGCCCTGGTGCCTGGTGACCCGGAGGTGGCCT 400
  Q  L  L  V  Y  A  F  P  D  Q  L  T  V  S  P  A  A  L  V  P  G  D  P  E  V  A

GTACGGCCCACAAAGTCACGCCCGTGGACCCCAACGCGCTCTCCTTCTCCCTGCTCGTCGGGGGCCAGGAACTGGAGGGG 480
 C  T  A  H  K  V  T  P  V  D  P  N  A  L  S  F  S  L  L  V  G  G  Q  E  L  E  G

GCGCAAGCCCTGGGCCCGGAGGTGCAGGAGGAGGAGGAGGAGCCCCAGGGGGACGAGGACGTGCTGTTCAGGGTGACAGA 560
 A  Q  A  L  G  P  E  V  Q  E  E  E  E  E  P  Q  G  D  E  D  V  L  F  R  V  T  E

GCGCTGGCGGCGTCCGCCCCCTGGGGACCCCTGTCCCGCCCGCCCTCTACTGCCAGGCCACGATGAGGCTGCCTGGCTTGG 640
  R  W  R  L  P  P  L  G  T  P  V  P  P  A  L  Y  C  Q  A  T  M  R  L  P  G  L

AGCTCAGCCACCGCCAGGCCATCCCCGTCCTGCACAGCCCGACCTCCCCGGAGCCTCCCGACACCACCTCCCCGGAGCCT 720
 E  L  S  H  R  Q  A  I  P  V  L  H  S  P  T  S  P  E  P  P  D  T  T  S  P  E  P

CCCAACACCACCTCCCCGGAGTCTCCCGACACCACCTCCCCGGAGTCTCCCGACACCACCTCCCAGGAGCCTCCCGACAC 800
 P  N  T  T  S  P  E  S  P  D  T  T  S  P  E  S  P  D  T  T  S  Q  E  P  P  D  T

CACCTCCCAGGAGCCTCCCGACACCACCTCCCAGGAGCCTCCCGACACCACCTCCCCGGAGCCTCCCGACAAGACCTCCC 880
  T  S  Q  E  P  P  D  T  T  S  Q  E  P  P  D  T  T  S  P  E  P  P  D  K  T  S

CGGAGCCCGCCCCCCAGCAGGGCTCCACACACACCCCCAGGAGCCCAGGCTCCACCAGGACTCGCCGCCCTGAGATCTCC 960
 P  E  P  A  P  Q  Q  G  S  T  H  T  P  R  S  P  G  S  T  R  T  R  R  P  E  I  S

CAGGCTGGGCCCACGCAGGGAGAAGTGATCCCAACAGGCTCGTCCAAACCTGCGGGTGACCAGCTGCCCGCGGCTCTGTG 1040
 Q  A  G  P  T  Q  G  E  V  I  P  T  G  S  S  K  P  A  G  D  Q  L  P  A  A  L  W

GACCAGCAGTGGGGTGCTGGGACTGCTGCTCCTGGCCTTGCCCACGTATCACCTCTGGAAACGCTGCCGGCACCTGGCTG 1120
  T  S  S  A  V  L  G  L  L  L  L  A  L  P  T  Y  H  L  W  K  R  C  R  H  L  A

AGGACGACACCCACCCACCAGCTTCTCTGAGGCTTCTGCCCCAGGTGTCGGCCTGGGCTGGGTTAAGGGGGACCGGCCAG 1200
 E  D  D  T  H  P  P  A  S  L  R  L  L  P  Q  V  S  A  W  A  G  L  R  G  T  G  Q

GTCGGGATCAGCCCCTCCTGAGTGGCCAGCCTTTCCCCCTGTGAAAGCAAAATAGCTTGGACCCCTTCAAGTTGAGAACT 1280
 V  G  I  S  P  S

GGTCAGGGCAAACCTGCCTCCCATTCTACTCAAAGTCATCCCTCTGCTCACAGAGATGGATGCATGTTCTGATTGCCTCT 1360

TTGGAGAAGCTCATCAGAAACTCAAAAGAAGGCCACTGTTTGTCTCACCTACCCATGACCTGAAGCCCCTCCCTGAGTGG 1440

TCCCCACCTTTCTGGACGGAACCACGTACTTTTTACATACATTGATTCATGTCTCACGTCTCCCTAAAAATGCGTAAGAC 1520

CAAGCTGTGCCCTGACCACCCTGGGCCCCTGTCGTCAGGACCTCCTGAGGCTTTGGCAAATAAACCTCCTAAAATGATAA 1600

AAAAAAAAAAAAAAAAAAAAAAA 1624
```

FIGURE 1

```
ATGGATTTCGGACTGGCCCTCCTGCTGGCGGGGGCTTCTGGGGCTCCTCCTCGGCCAGTCCCTCCAGGTGAAGCCCCTGCA 80
 M  D  F  G  L  A  L  L  L  A  G  L  L  G  L  L  L  G  Q  S  L  Q  V  K  P  L  Q

GGTGGAGCCCCCGGAGCCGGTGGTGGCCGTGGCCTTGGGCGCCTCGCGCCAGCTCACCTGCCGCCTGGCCTGCGCGGACC 160
   V  E  P  P  E  P  V  V  A  V  A  L  G  A  S  R  Q  L  T  C  R  L  A  C  A  D

GCGGGGCCTCGGTGCAGTGGCGGGGGCCTGGACACCAGCCTGGGCGCGGTGCAGTCGGACACGGGCCGCAGCGTCCTCACC 240
R  G  A  S  V  Q  W  R  G  L  D  T  S  L  G  A  V  Q  S  D  T  G  R  S  V  L  T

GTGCGCAACGCCTCGCTGTCGGCGGCCGGGACCCGCGTGTGCGTGGGCTCCTGCGGGGGCCGCACCTTCCAGCACACCGT 320
 V  R  N  A  S  L  S  A  A  G  T  R  V  C  V  G  S  C  G  G  R  T  F  Q  H  T  V

GCAGCTCCTTGTGTACGCCTTCCCGGACCAGCTGACCGTCTCCCCAGCAGCCCTGGTGCCTGGTGACCCGGAGGTGGCCT 400
  Q  L  L  V  Y  A  F  P  D  Q  L  T  V  S  P  A  A  L  V  P  G  D  P  E  V  A

GTACGGCCCACAAAGTCACGCCCGTGGACCCCAACGCGCTCTCCTTCTCCCTGCTCGTCGGGGGCCAGGAACTGGAGGGG 480
C  T  A  H  K  V  T  P  V  D  P  N  A  L  S  F  S  L  L  V  G  G  Q  E  L  E  G

GCGCAAGCCCTGGGCCCGGAGGTGCAGGAGGAGGAGGAGGAGCCCCAGGGGGACGAGGACGTGCTGTTCAGGGTGACAGA 560
 A  Q  A  L  G  P  E  V  Q  E  E  E  E  E  P  Q  G  D  E  D  V  L  F  R  V  T  E

GCGCTGGCGGCTGCCGCCCCTGGGGACCCCTGTCCCGCCCGCCCTCTACTGCCAGGCCACGATGAGGCTGCCTGGCTTGG 640
  R  W  R  L  P  P  L  G  T  P  V  P  P  A  L  Y  C  Q  A  T  M  R  L  P  G  L

AGCTCAGCCACCGCCAGGCCATCCCCGTCCTGCACAGCCCGACCTCCCCGGAGCCTCCCGACACCACCTCCCCGGAGTCT 720
E  L  S  H  R  Q  A  I  P  V  L  H  S  P  T  S  P  E  P  P  D  T  T  S  P  E  S

CCCGACACCACCTCCCCGGAGTCTCCCGACACCACCTCCCAGGAGCCTCCCGACACCACCTCCCCGGAGCCTCCCGACAA 800
 P  D  T  T  S  P  E  S  P  D  T  T  S  Q  E  P  P  D  T  T  S  P  E  P  P  D  K

GACCTCCCCGGAGCCCGCCCCCCAGCAGGGCTCCACACACACCCCCAGGAGCCCAGGCTCCACCAGGACTCGCCGCCCTG 880
  T  S  P  E  P  A  P  Q  Q  G  S  T  H  T  P  R  S  P  G  S  T  R  T  R  R  P

AGATCTCCCAGGCTGGGCCCACGCAGGGAGAAGTGATCCCAACAGGCTCGTCCAAACCTGCGGGTGACCAGCTGCCCGCG 960
E  I  S  Q  A  G  P  T  Q  G  E  V  I  P  T  G  S  S  K  P  A  G  D  Q  L  P  A

GCTCTGTGGACCAGCAGTGCGGTGCTGGGACTGCTGCTCCTGGCCTTGCCCACCTATCACCTCTGGAAACGCTGCCGGCA 1040
 A  L  W  T  S  S  A  V  L  G  L  L  L  L  A  L  P  T  Y  H  L  W  K  R  C  R  H

CCTGGCTGAGGACGACACCCACCCACCAGCTTCTCTGAGGCTTCTGCCCCAGGTGTCGGCCTGGGCTGGGTTAAGGGGGA 1120
  L  A  E  D  D  T  H  P  P  A  S  L  R  L  L  P  Q  V  S  A  W  A  G  L  R  G

CCGGCCAGGTCGGGATCAGCCCCTCCTGAGTGGCCAGCCTTTCCCCCTGTGAAAGCAAAATAGCTTGGACCCCTTCAAGT 1200
T  G  C  V  G  I  S  P  S

TGAGAACTGGTCAGGGCAAACCTGCCTCCCATTCTACTCAAAGTCATCCCTCTGTTCACAGAGATGGATGCATGTTCTGA 1280

TTGCCTCTTTGGAGAAGCTCATCAGAAACTCAAAAGAAGGCCACTGTTTGTCTCACCTACCCATGACCTGAAGCCCCTCC 1360

CTGAGTGGTCCCCACCTTTCTGGACGGAACCACGTACTTTTTACATACATTGATTCATGTCTCACGTCTCCCTAAAAATG 1440

CGTAAGACCAAGCTGTGCCCTGACCACCCTGGGCCCCTGTCGTCAGGACCTCCTGAGGCTTTGGCAAATAAACCTCCTAA 1520

AATGAAAAAAAAAAAAAAA 1539
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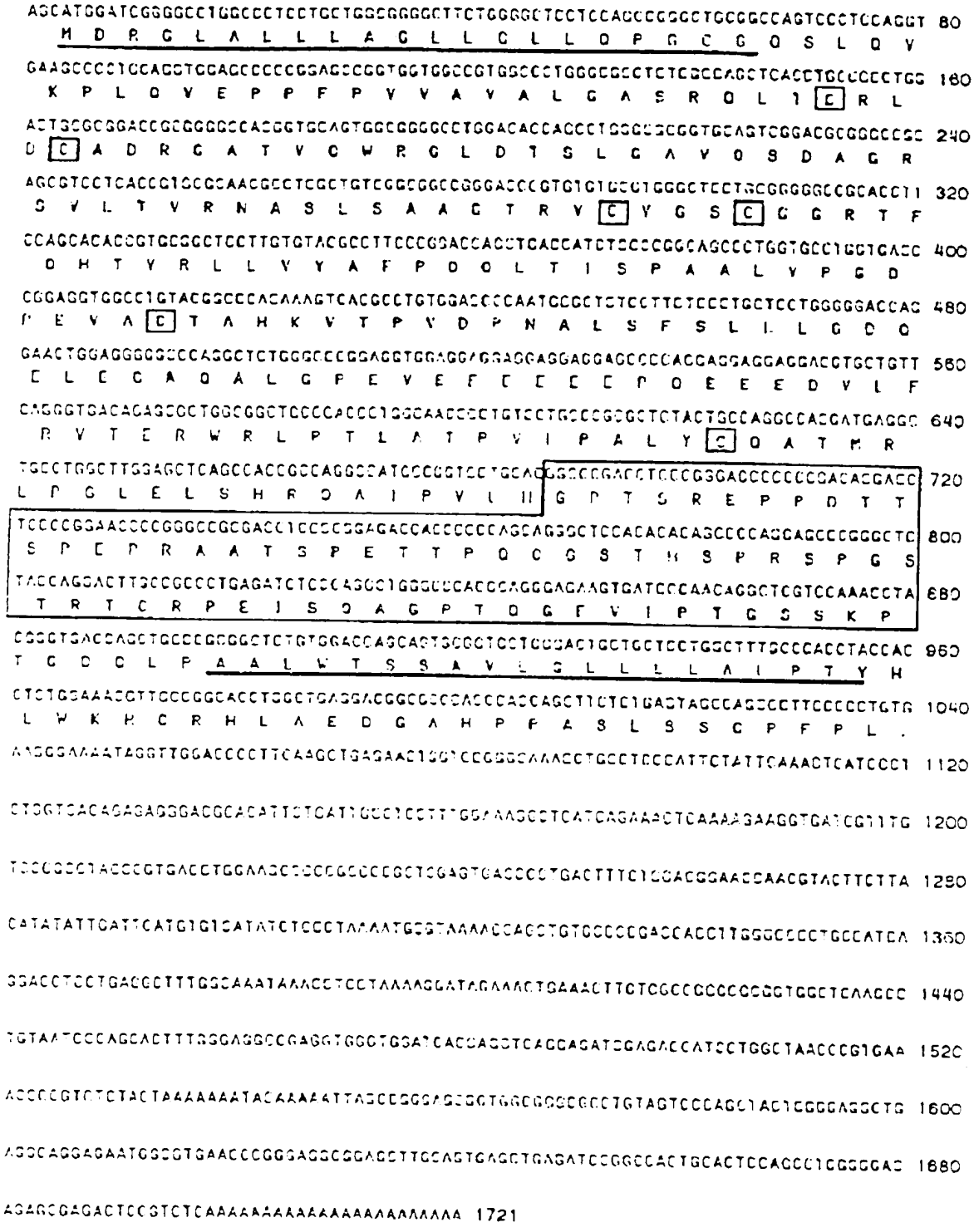
FIGURE 2

Figure 3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M D R G L A L L L A G L L C L L Q P G C G Q S L Q V
GAAGCCCCTGCAGGTGGAGCCCCCGGAGCCGGTGGTGGCCGTGGCCCTGGGCGCCTCTCGCCAGCTCACCTGCCCCCTGG 160
K P L Q V E P P F P V V A V A L G A S R Q L T C R L
ACTGCGCGGACCGCGGGGGCCAGGGTGCAGTGGCGGGGCCTGGACACCAGCCTGGCGCGGTGCAGTCGGACGCGGGCCGC 240
D C A D R G A T V C W R G L D T S L G A V Q S D A G R
AGCGTCCTCACCGTGCGCAACGCCTCGCTGTCGGCGGCCGGGACCCGTGTGTGCGTGGGCTCCTGCGGGGGCCGCACCTT 320
S V L T V R N A S L S A A G T R V C Y G S C G G R T F
CCAGCACACCGTGCGGCTCCTTGTGTACGCCTTCCCGGACCACCTCACCATCTCCCCGGCAGCCCTGGTGCCTGGTGACC 400
Q H T V R L L V Y A F P D Q L T I S P A A L V P G D
CGGAGGTGGCCTGTACGGCCCACAAAGTCACGCCTGTGGACCCCAATGCGCTCTCCTTCTCCCTGCTCCTGGGGGACCAC 480
P E V A C T A H K V T P V D P N A L S F S L L L G D Q
GAACTGGAGGGGGGCCCAGGCTCTGGGCCCGGAGGTGGAGGAGGAGGAGGAGGAGCCCCACCAGGAGGAGGACGTGCTGTT 560
E L C C A Q A L G P E V E E E E E P Q E E E D V L F
CAGGGTGACAGAGCGCTGGCGGCTCCCCACCCTGGCAACCCCTGTCCTGCCCGGGCTCTACTGCCAGGCCACGATGAGGC 640
R V T E R W R L P T L A T P V I P A L Y C Q A T M R
TGCCTGGCTTGGAGCTCAGCCACCGCCAGGCCATCCCGGTCCTGCACGGCCCGACGTCCCGGACCCCCCCCACACGACC 720
L P G L E L S H R Q A I P V L H G P T S R E P P D T T
TCCCCGGAACCCCGGGCCGCGACCTCCCCGGAGACCACCCCCCAGCAGGGCTCCACACACAGCCCCAGGAGCCCGGGCTC 800
S P E P R A A T S P E T T P Q C G S T H S P R S P G S
TACCAGGACTTGCCGCCCTGAGATCTCCCAGGCTGGGCCCACCGAGGGAGAAGTGATCCCAACAGGCTCGTCCAAACCTA 880
T R T C R P E I S Q A G P T Q G E V I P T G S S K P
CGGGTGACCAGCTGCCCGGGGCTCTGTGGACCAGCAGTGCGCTCCTCGGACTGCTGCTCCTGGCTTTGCCCACCTACCAC 960
T G D C L P A A L W T S S A V L G L L L L A I P T Y H
CTCTGGAAACGTTGCCGGCACCTGGCTGAGGACGGCGCCCAGCCACCAGCTTCTCTGACTAGCCAGCCCTTCCCCCTGTG 1040
L W K R C R H L A E D G A H P P A S L S S C P F P L .
AAGGGAAAATAGGTTGGACCCCTTCAAGCTGAGAACTGGTCCGGGCAAACCTGCCTCCCATTCTATTCAAACTCATCCCT 1120
CTGGTCACAGAGAGGACGCACATTCTCATTGCCTCCTTTGGAAAGCCTCATCAGAAACTCAAAAGAAGGTGATCGTTTG 1200
TCCCGCCTACCCGTGACCTGGAAGCTCCCGCCCCGCTCGAGTGACCCCTGACTTTCTCGACGGAACCAACGTACTTCTTA 1280
CATATATTGATTCATGTGTCATATCTCCCTAAAATGCGTAAAACCAGCTGTCCCCCGACCACCTTGGGCCCCTGCCATCA 1360
GGACCTCCTGACGCTTTGGCAAATAAACCTCCTAAAAGGATAGAAACTGAAACTTGTCGCCGCCCCCGGTGGCTCAAGCC 1440
TGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGTGGATCACGAGGTCAGGAGATCGAGACCATCCTGGCTAACCCGTGAA 1520
ACCCCGTCTCTACTAAAAAAATACAAAAATTAGCCGGGAGCGGTGGCGGGCGCCTGTAGTCCCAGCTACTCGGGAGGCTG 1600
AGGCAGGAGAATGGCGTGAACCCGGGAGGCGGAGCTTGCAGTGAGCTGAGATCCGGCCACTGCACTCCAGCCTGGGCGAC 1680
AGAGCGAGACTCCGTCTCAAAAAAAAAAAAAAAAAAAAAA 1721

Figure 4a

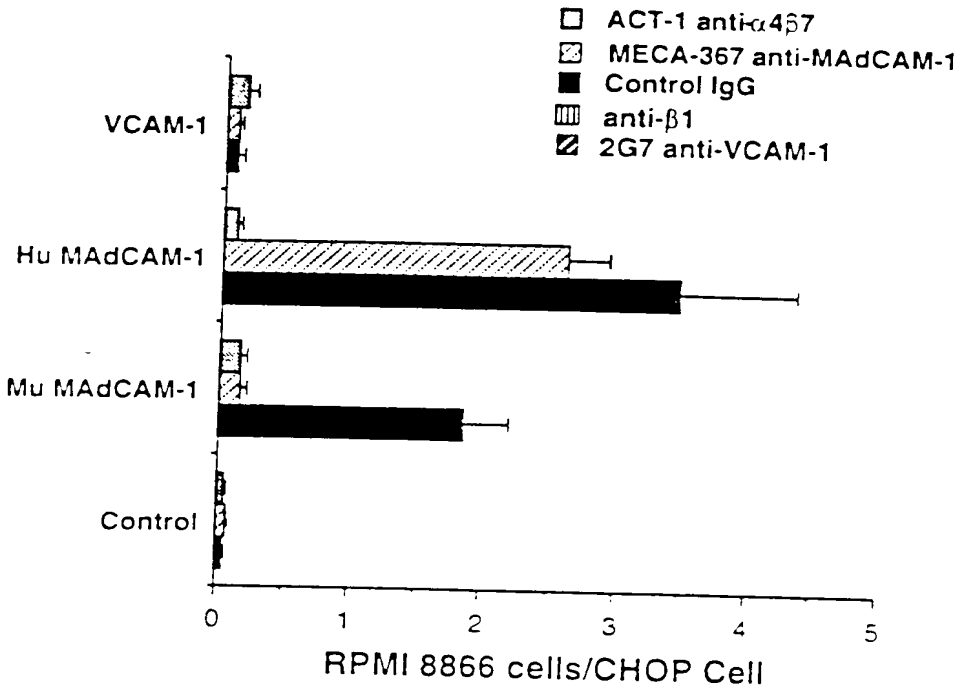
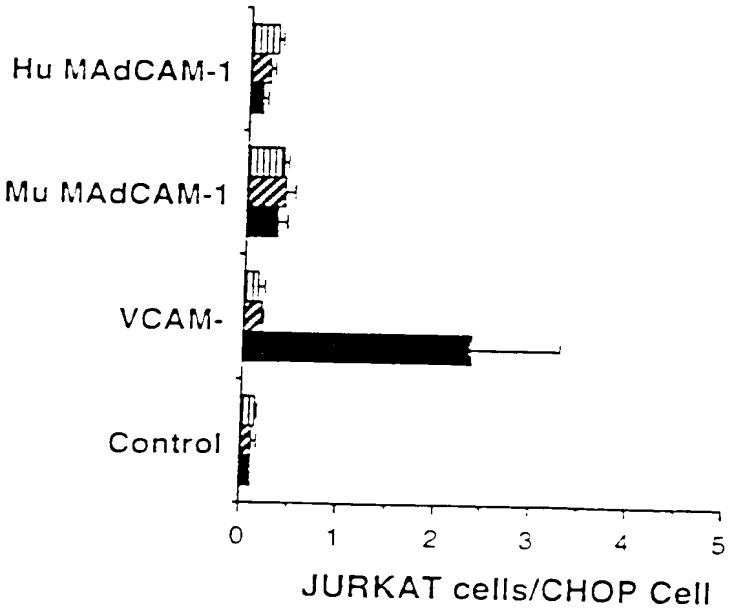


Figure 4b



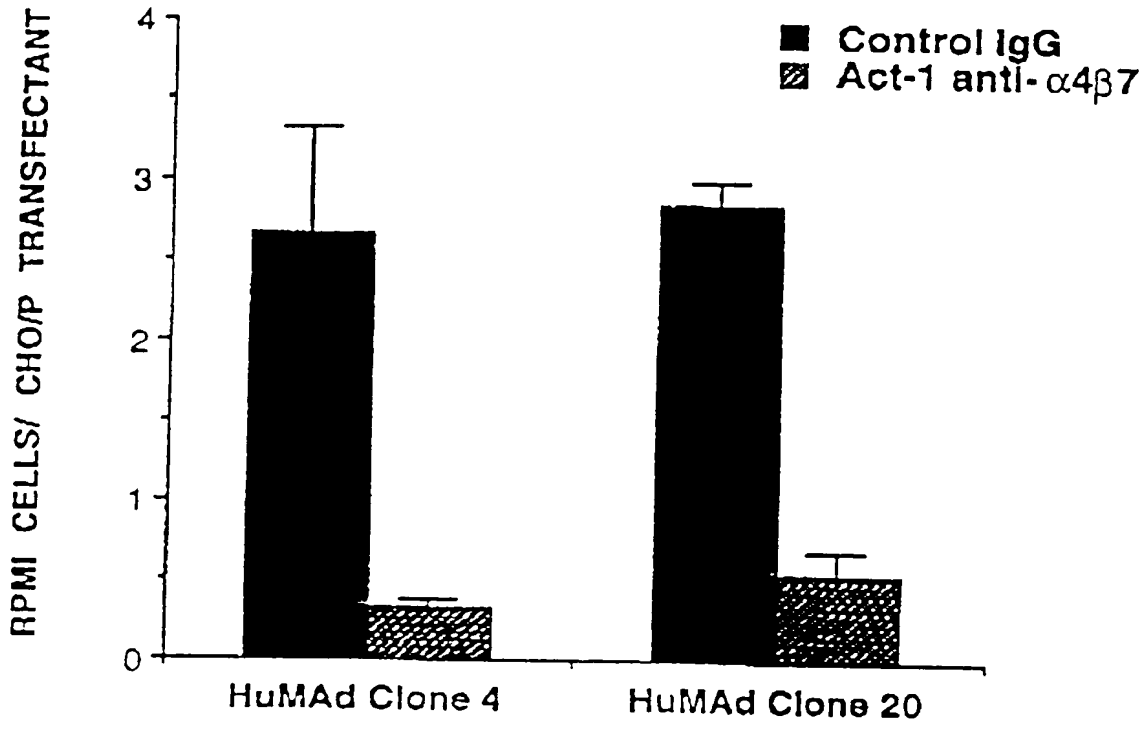

RPMI CELLS/ CHO/P TRANSFECTANT
4
3
2
1
0
Control IgG
Act-1 anti-α4β7
HuMAd Clone 4
HuMAd Clone 20

FIGURE 5

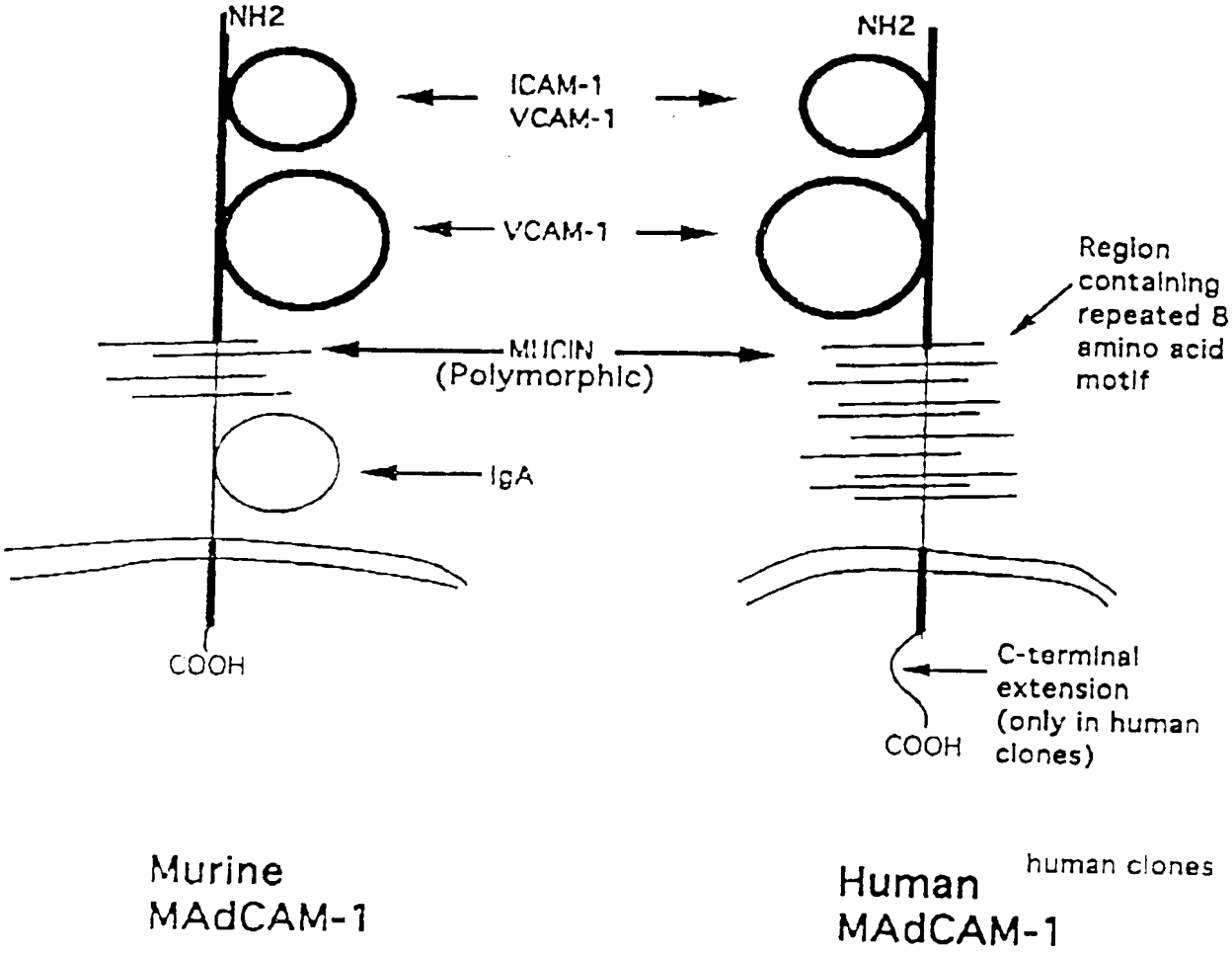

NH2
ICAM-1
VCAM-1
VCAM-1
MUCIN
(Polymorphic)
IgA
COOH
NH2
Region containing repeated 8 amino acid motif
C-terminal extension (only in human clones)
COOH
Murine MAdCAM-1
human clones
Human MAdCAM-1

Figure 6

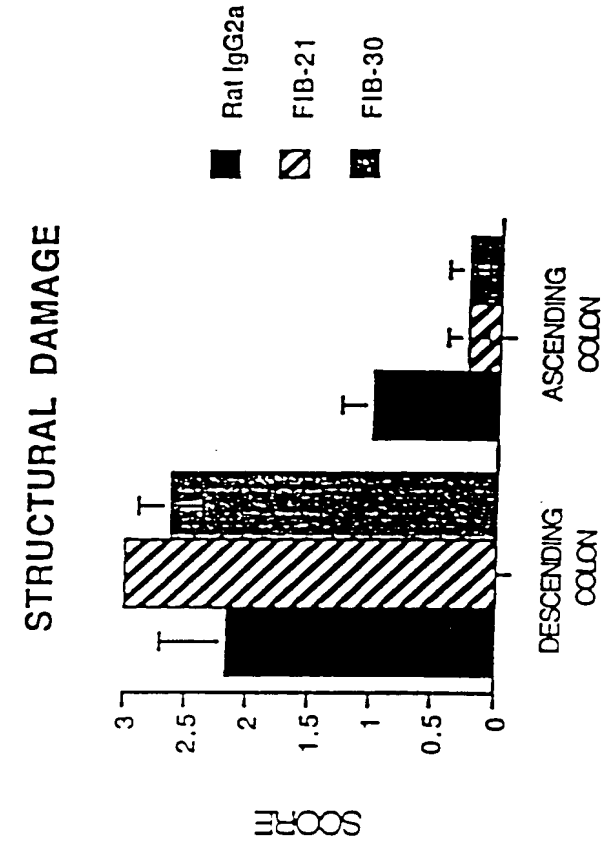


FIGURE 7B

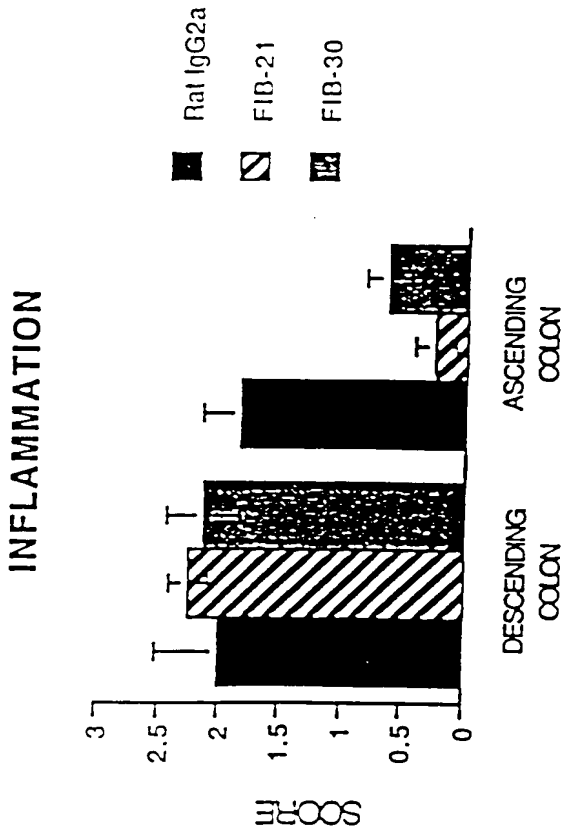
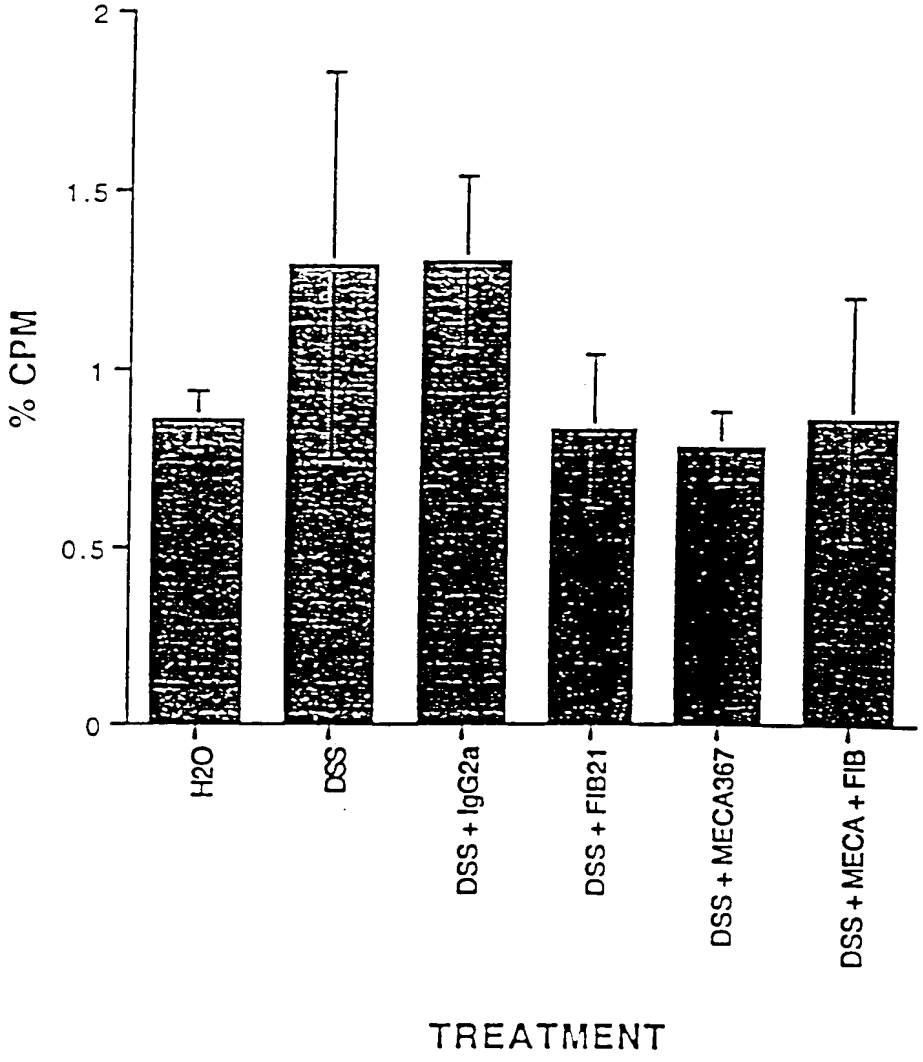


FIGURE 7A

Figure 8


2
1.5
1
0.5
0
% CPM
H2O
DSS
DSS + IgG2a
DSS + FIB21
DSS + MECA367
DSS + MECA + FIB
TREATMENT

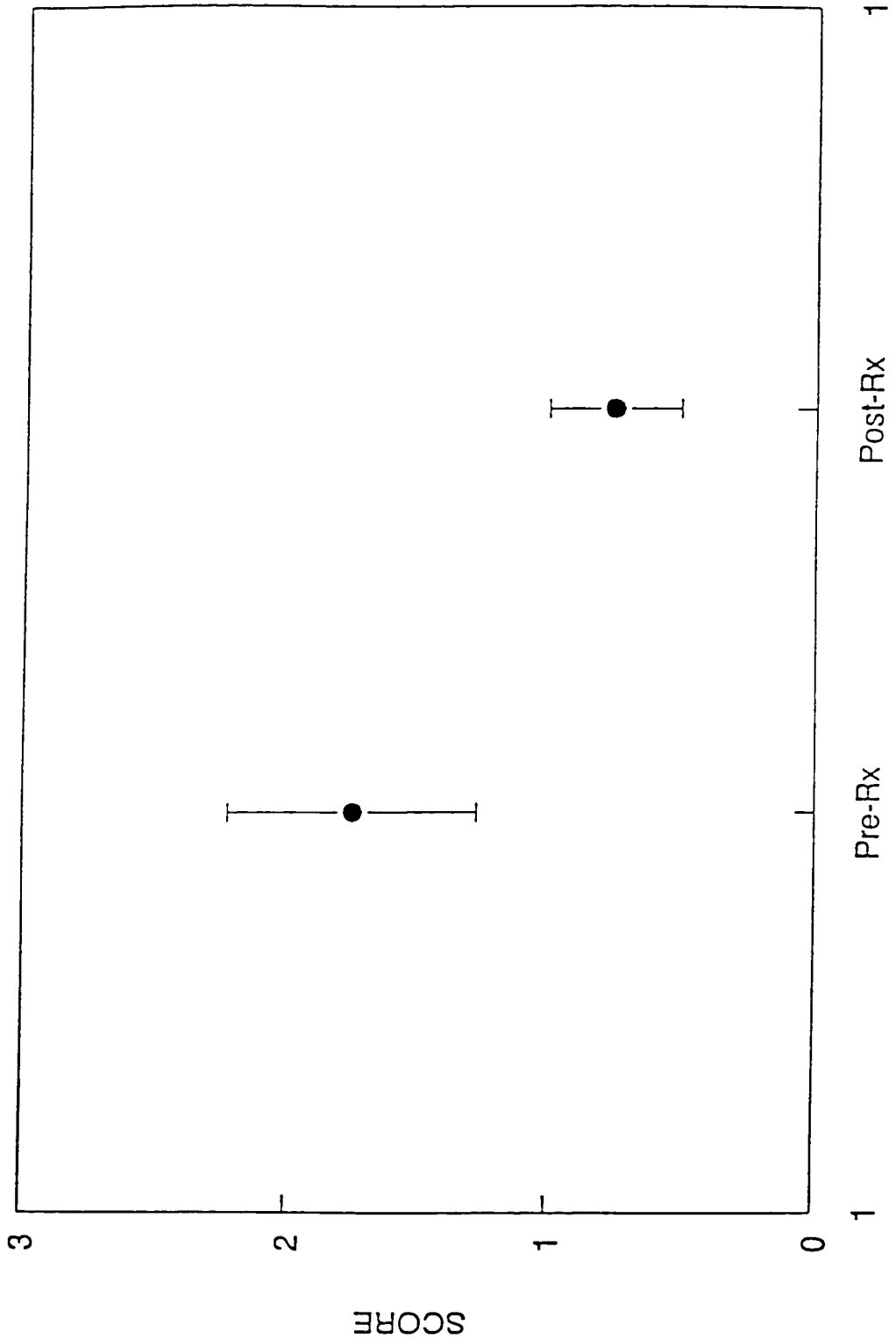


Figure 9

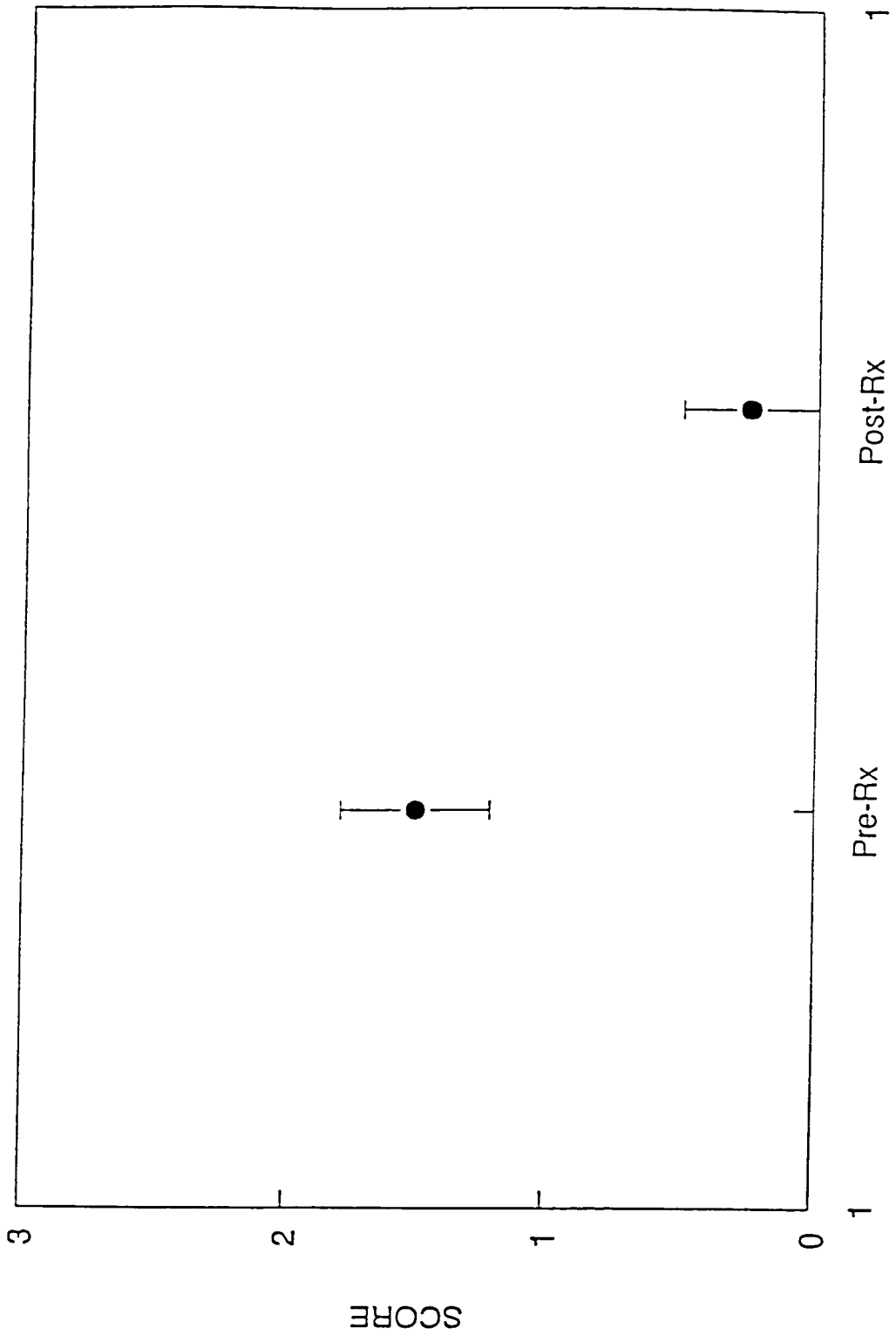


Figure 10

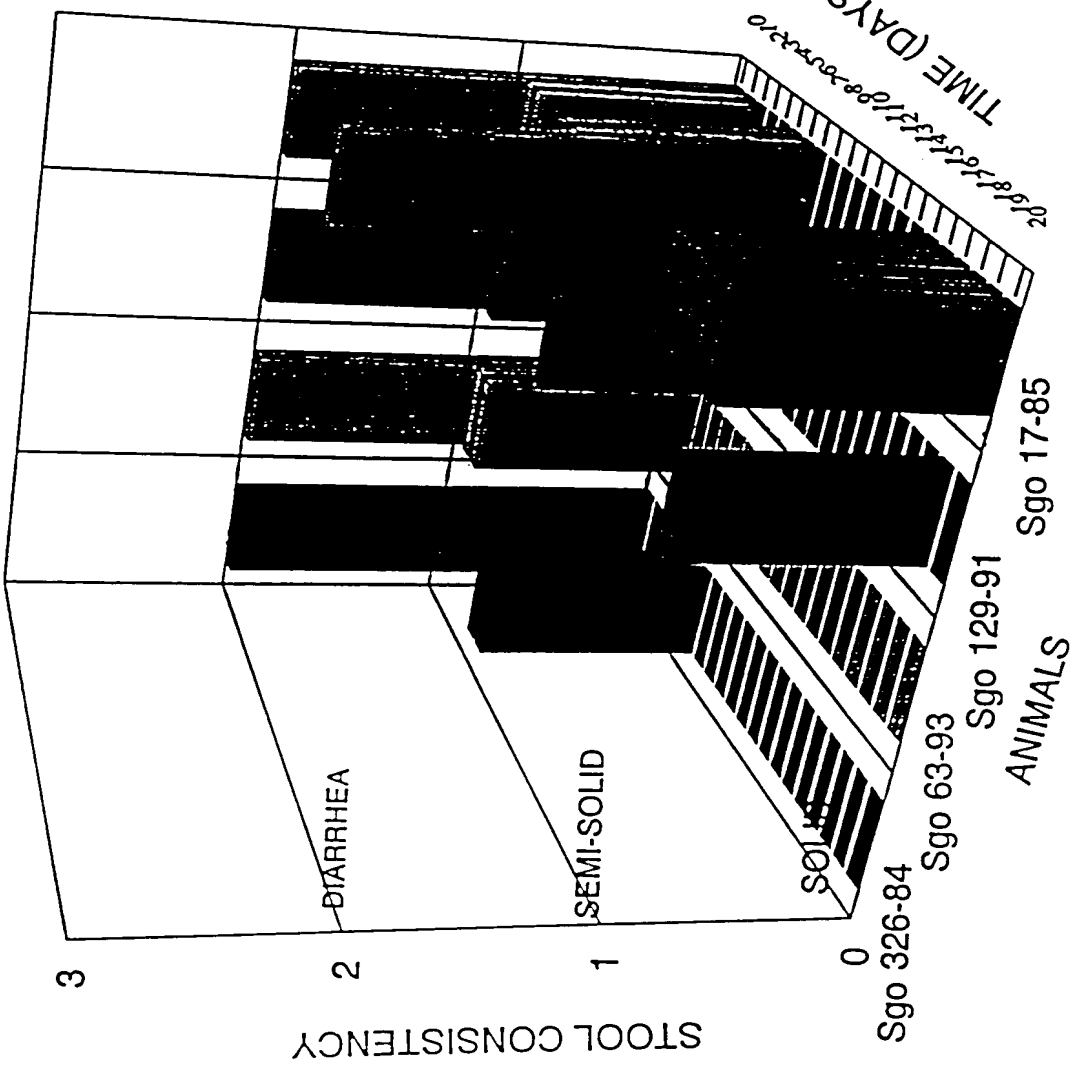

TIME (DAYS)
20
18
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
Sgo 17-85
Sgo 129-91
Sgo 63-93
Sgo 326-84
ANIMALS
0
1
2
3
STOOL CONSISTENCY
SOLID
SEMI-SOLID
DIARRHEA

Figure 11

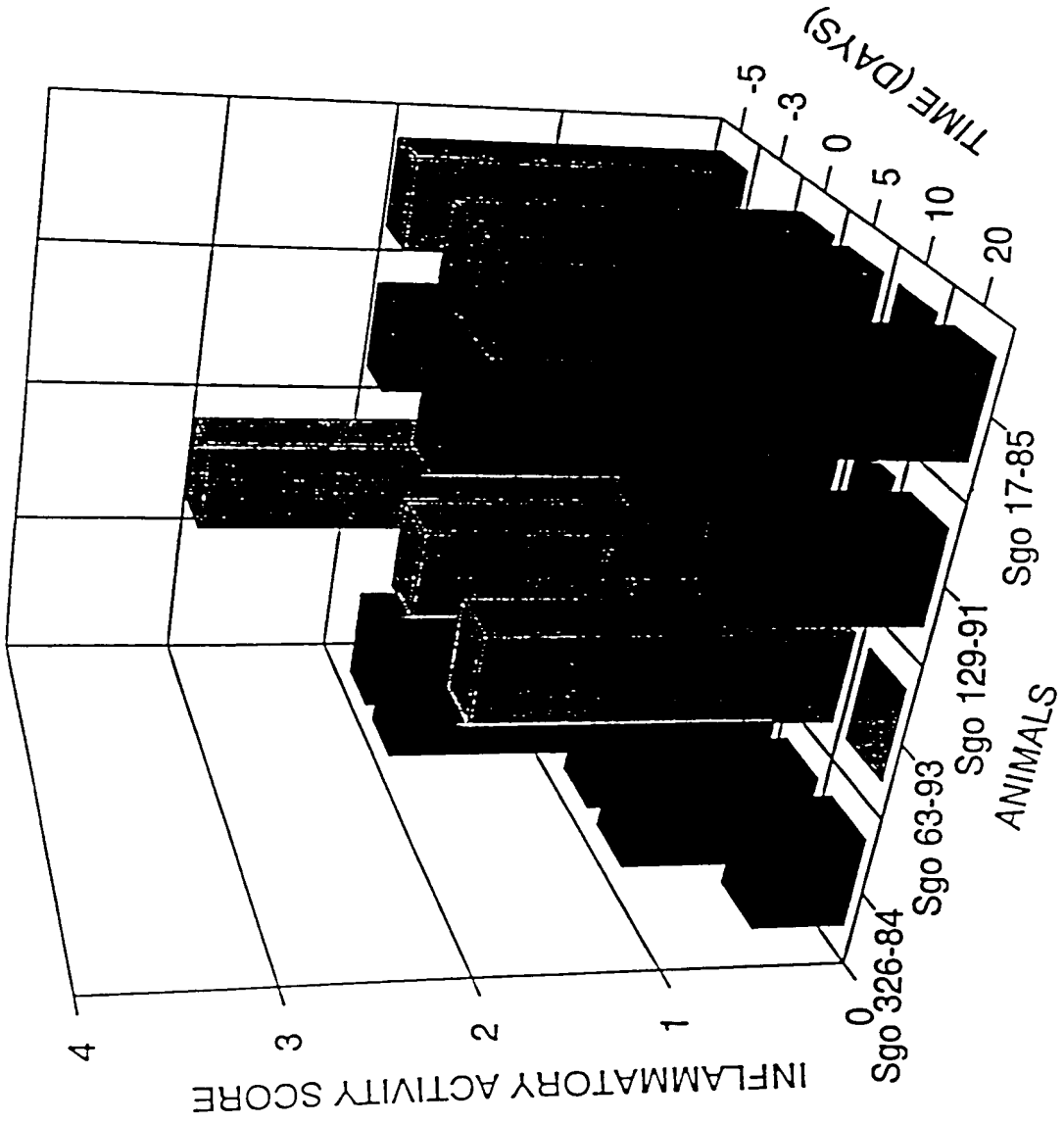

TIME (DAYS)
-5
-3
0
5
10
20
ANIMALS
Sgo 17-85
Sgo 129-91
Sgo 63-93
Sgo 326-84
INFLAMMATORY ACTIVITY SCORE
0
1
2
3
4

Figure 12

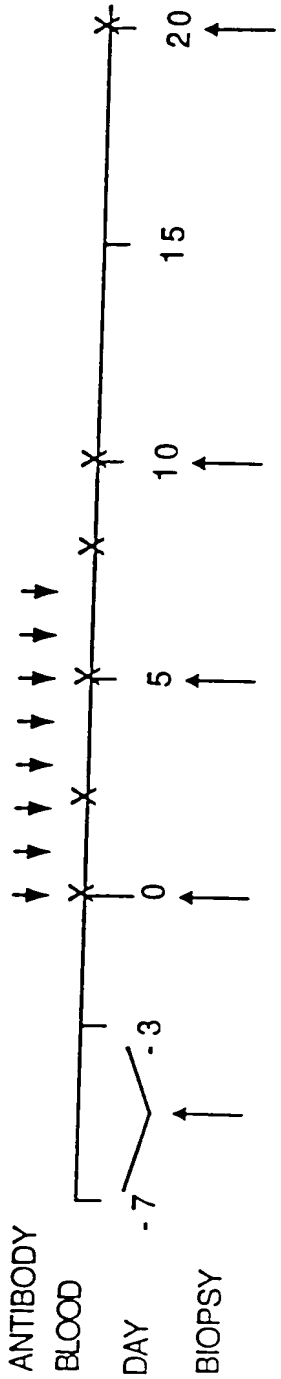


Figure 13

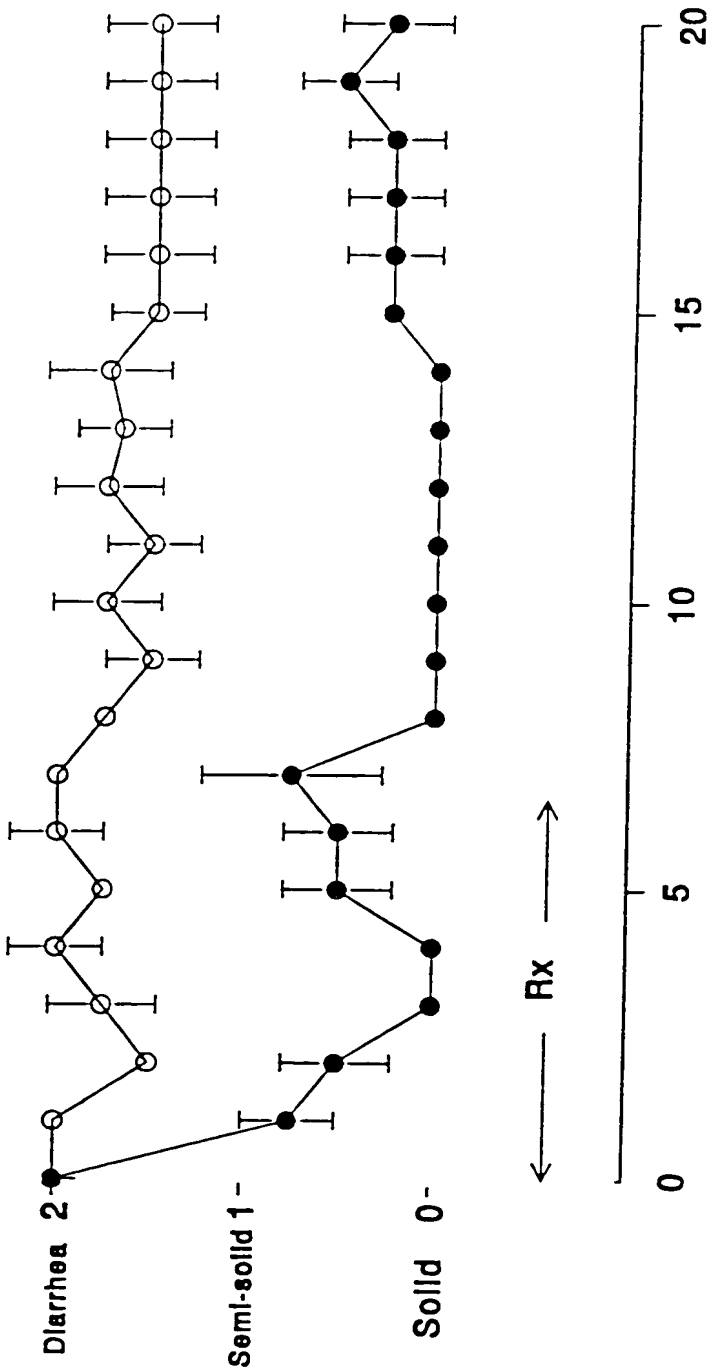


Figure 14

Figure 15

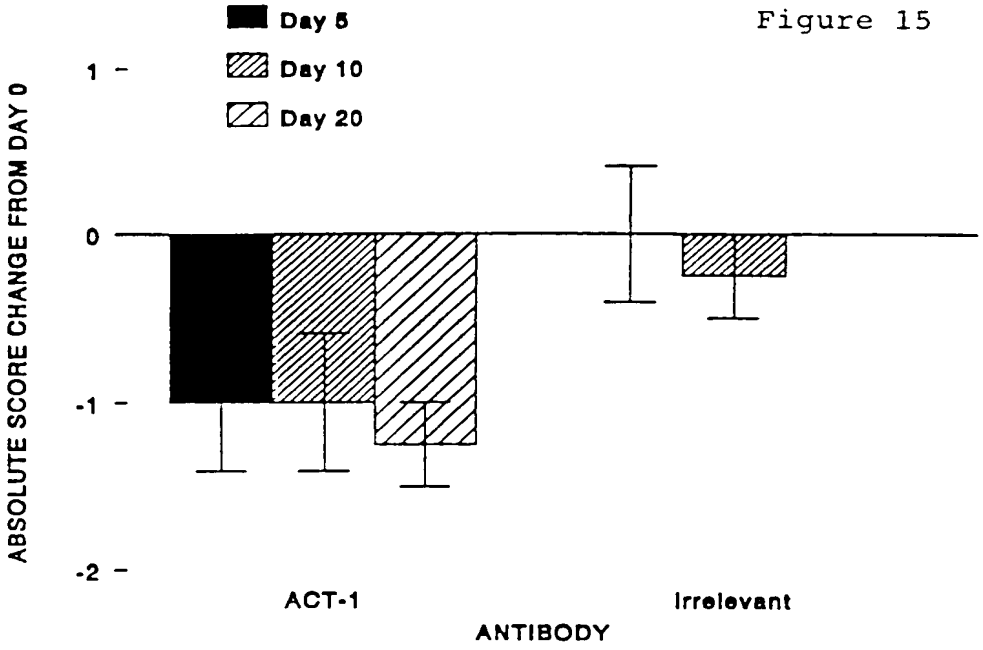
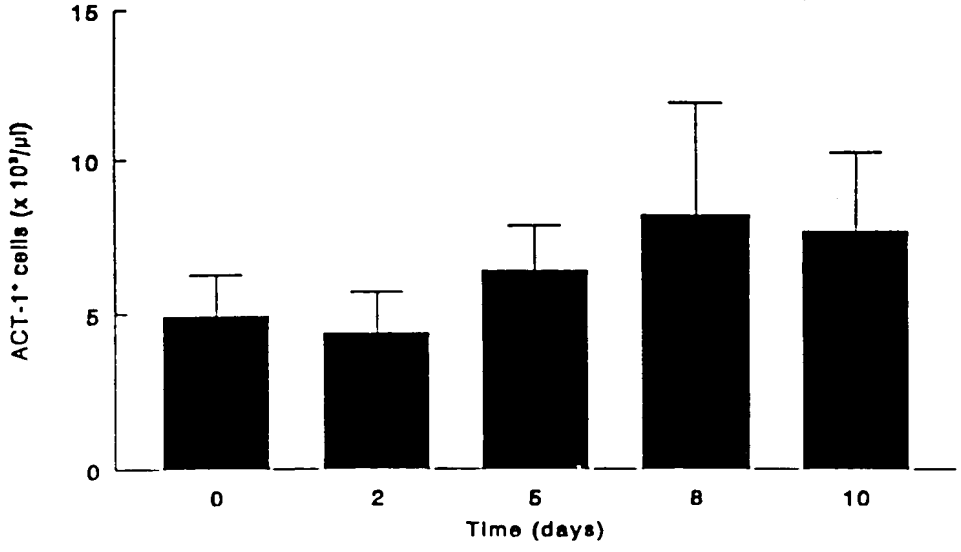
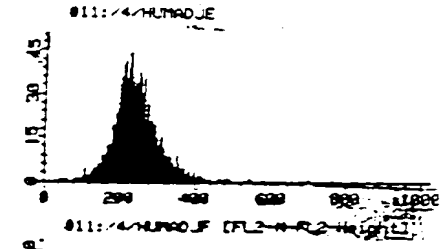


Figure 16





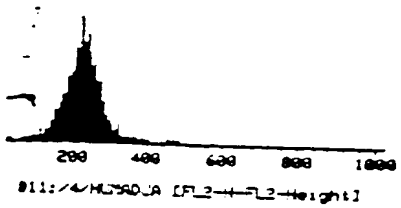
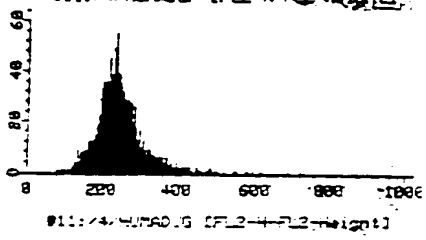


Figure 17A



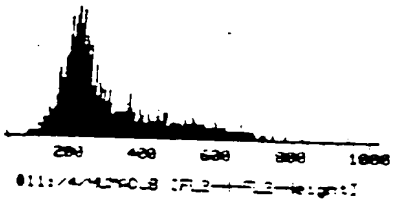
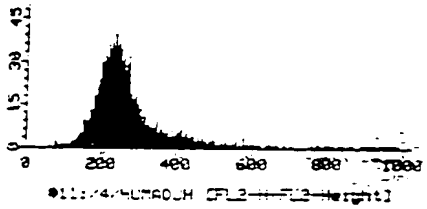


Figure 17B



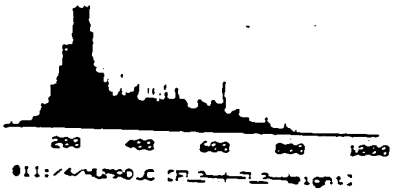
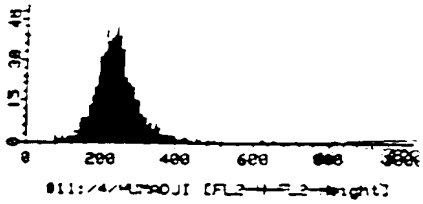


Figure 17C



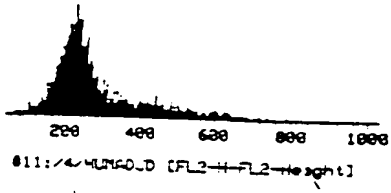


Figure 17D

Figure 17E

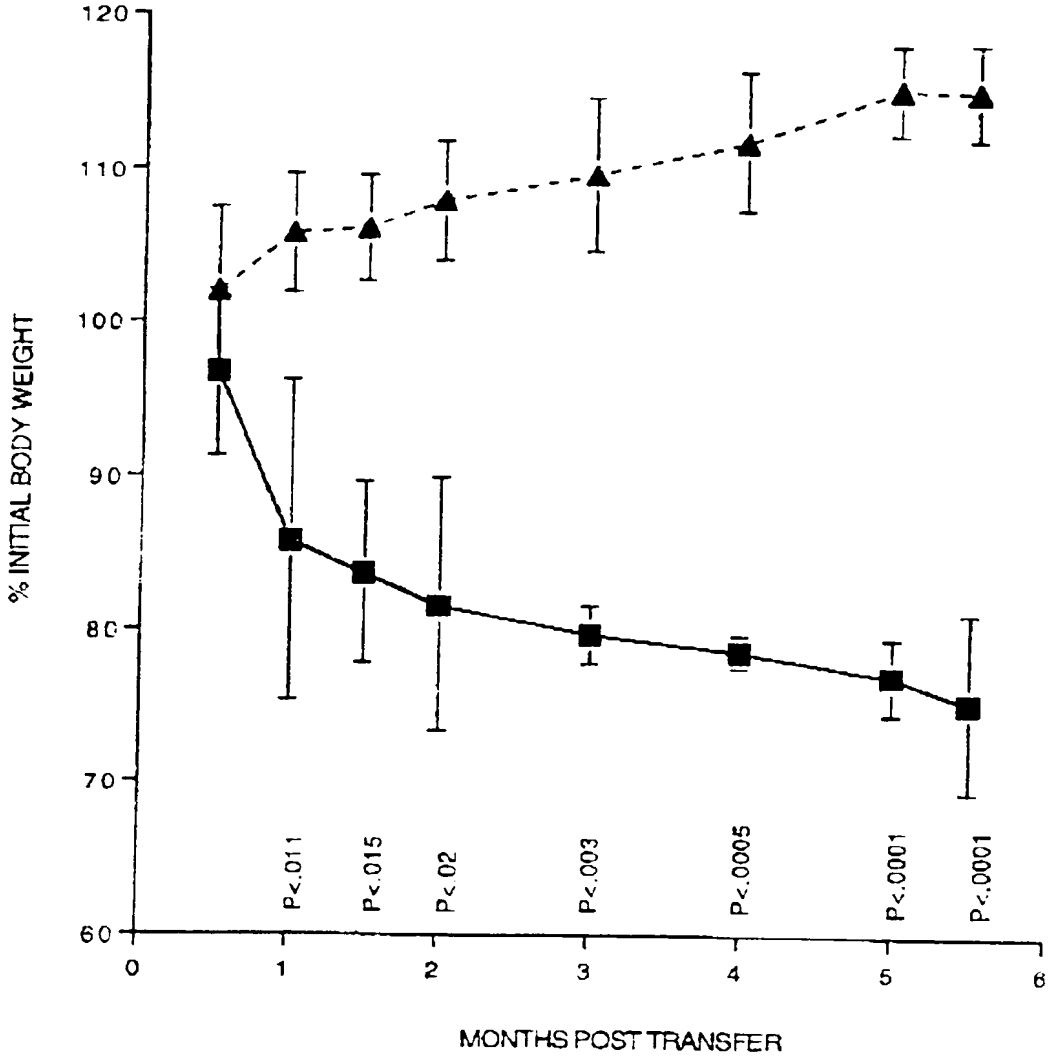

120
110
100
90
80
70
60
% INITIAL BODY WEIGHT
P<.011
P<.015
P<.02
P<.003
P<.0005
P<.0001
P<.0001
0
1
2
3
4
5
6
MONTHS POST TRANSFER

Figure 18

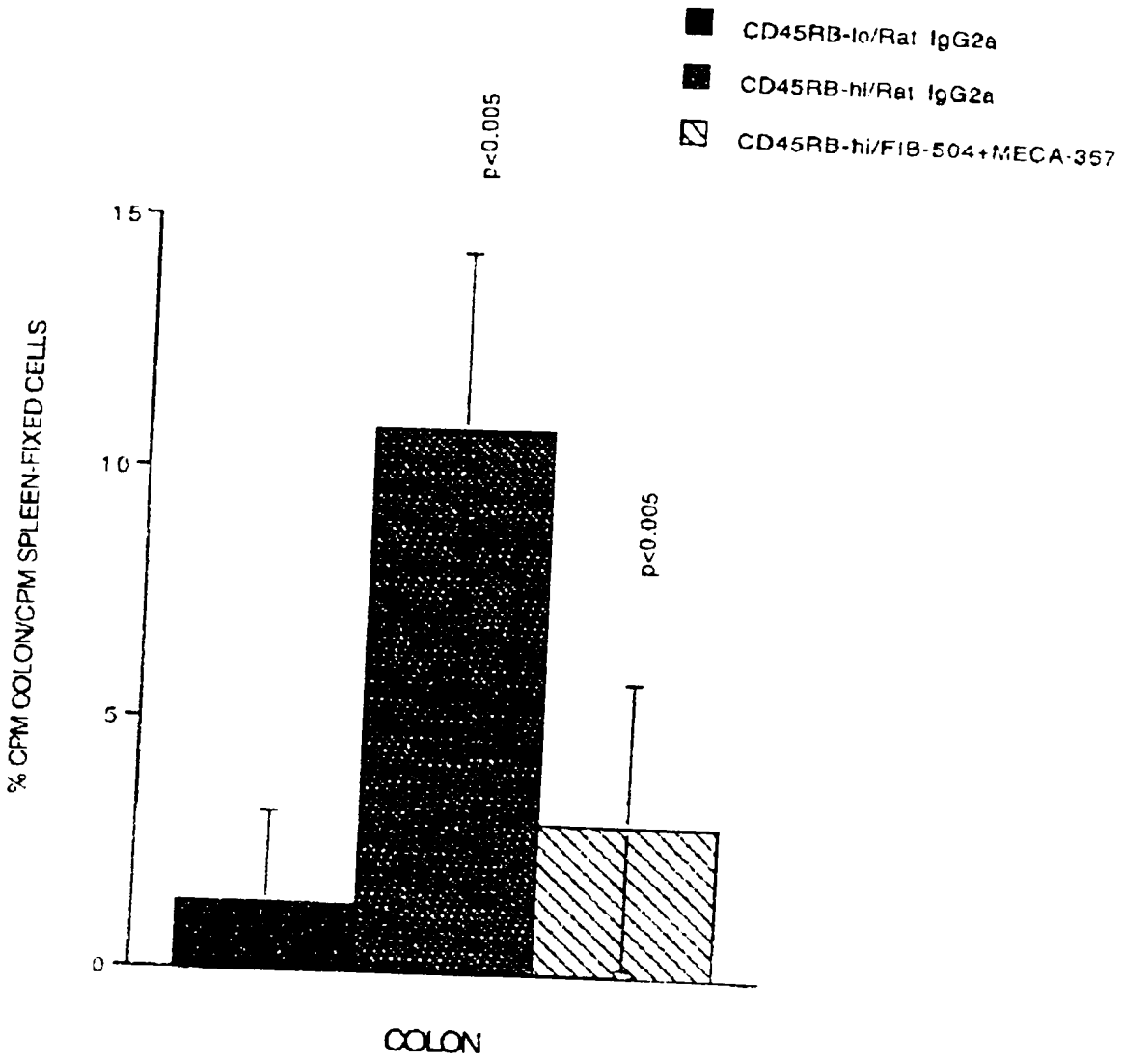

CD45RB-lo/Rat IgG2a
CD45RB-hi/Rat IgG2a
CD45RB-hi/FIB-504+MECA-367
p<0.005
p<0.005
% CPM COLON/CPM SPLEEN-FIXED CELLS
15
10
5
0
COLON

Figure 19

Figure 20

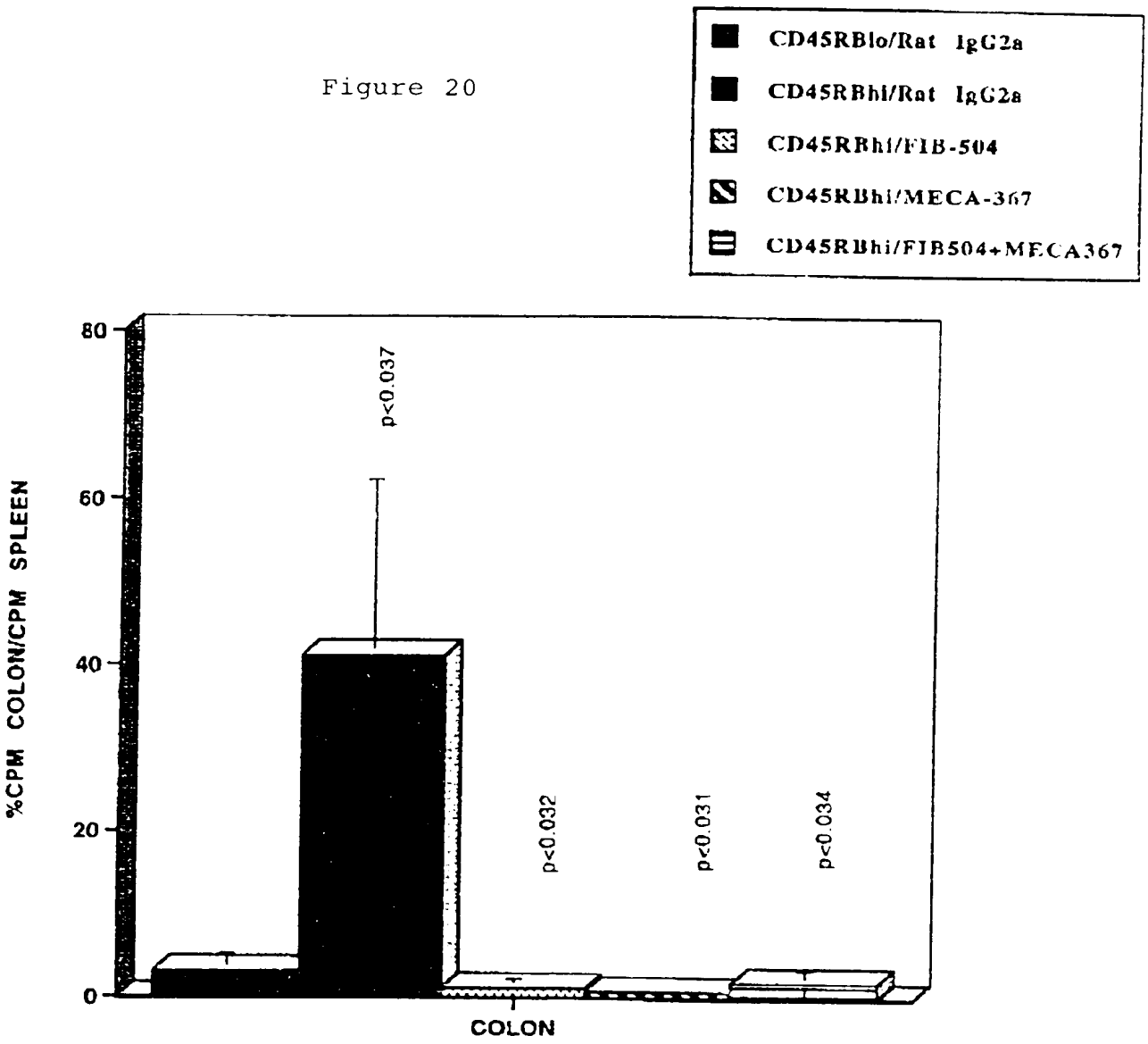
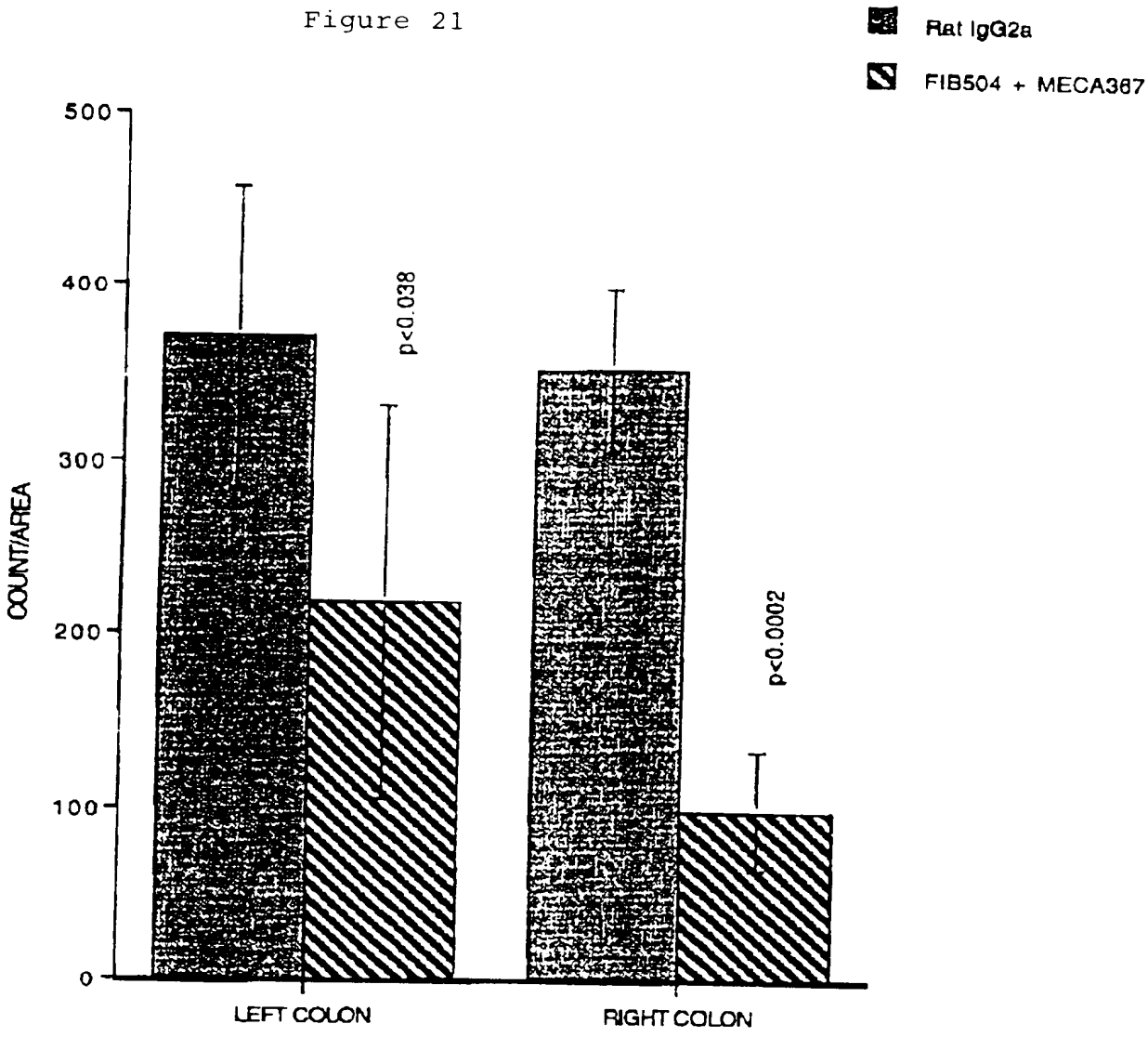

CD45RBlo/Rat IgG2a
CD45RBhi/Rat IgG2a
CD45RBhi/FIB-504
CD45RBhi/MECA-367
CD45RBhi/FIB504+MECA367
%CPM COLON/CPM SPLEEN
80
60
40
20
0
p<0.037
p<0.032
p<0.031
p<0.034
COLON

Figure 21


Rat IgG2a
FIB504 + MECA367
500
400
300
200
100
0
COUNT/AREA
p<0.038
p<0.0002
LEFT COLON
RIGHT COLON